

Air, Surface & Food UV Disinfection

ESCO International is a leading supplier of UV and ozone equipment and solutions for water and gas purification worldwide.

ESCO International is pleased to introduce a new series of UV systems designed for the treatment of air, surfaces and food.

ESCO International can now offer a wide range of air, surface and food disinfection UV systems.

Custom designed UV systems can be supplied by ESCO International to meet specific requirements.

These UV systems can be divided into 2 series:

- SITAIR MQ for Ceiling bowls
- SITAIR MC for System with forced air tunnel



Ceiling bowls for food application

SITAIR MQ SERIES

In this series the ceiling bowls are suspended. They are made of anodized aluminium, and have a high reflecting power. For this specific application we can use a "shatterproof" UV lamp whose special coating prevents the glass from shattering everywhere in case of the lamp quartz breaking accidentally.

Direct irradiation allows to disinfect and keep surfaces, objects and food in a storage-room sterilized.

Disinfecting the food with UV irradiation increases its shelf-life considerably. We can treat dried fruits, pre-cooked bread, fresh pasta, charcuterie, cold meat, grated cheese, sweets and so on, so that the period they retain an acceptable quality is extended. The results depend on a series of factors among which the time of exposure, the uniformity of irradiation, the kind of product and the nature of the contamination to be eliminated. To ensure the optimum exposure on all sides of a product, a vibrating platform is generally used for their conveyance.



Ceiling bowl for the treatment of air, surfaces, food.

SITAIR MC SERIES

This series is characterized by equipment designed to work autonomously, or to be installed into existing air pipes. In the first case the air flow to be treated is forced by a fan, while in the second case the system is designed to be inserted into a pipe and does not need a motor of its own.

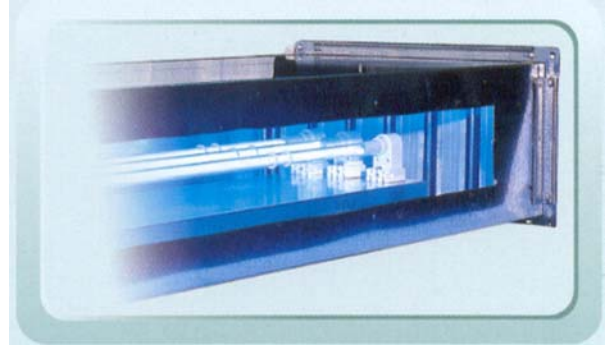
The high factor of penetration of the UV light allows to treat important volumes of air and at the same time to reduce greatly microbial concentration levels.



System of air disinfection with a forced ventilation tunnel for low flow rate.

The fields of application for this series are numerous. Wherever there is a need for aseptic areas and surroundings one can consider the installation of one or more of these systems. One targeted at surfaces or products that require special treatment, others used for disinfection of air and surroundings in the presence of sick people and more generally immune-compromised subjects. These disinfection systems can be installed in the following places:

- waiting rooms
- cinemas
- operating rooms
- hospitals
- offices
- schools
- air conditioning systems
- private houses
- food industries
- pharmaceutical industries
- laboratories
- breeding farms



System of disinfection to be inserted in the UTA (Unit of Air Treatment)



System of air disinfection with a forced ventilation tunnel for high flow rate

No micro-organism is immune to this treatment.